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srch_pp on: protein - protein database search, using Smith-Waterman algorithm Tue Mar 23 15:01:25 1999; MasPar time 2.89 Seconds 61.491 Million cell updates/sec

Tabular output not generated

Description: Perfect Score: Sequence: >US-08-766-350A-2 (24-34) from US08766350A.pep (2 of 4) 63 1 MTQSPSSICAC ...

Scoring table: PAM 150 Gap 11

Searched: 131922 seqs, 16180660 residues

Post-processing: Minimum Listing Match 0% first 45 summaries

Database: a-geneseq32
1:part1 2:part2 3:part3 4:part4 5:part5 6:part6 7:part7
8:part8 9:part9 10:part10 11:part11 12:part12 13:part13
14:part14 15:part15 16:part16 17:part17 18:part18
19:part19 20:part20 21:part21 22:part22 23:part23
24:part24 25:part25 26:part26 27:part27 28:part28
29:part29

Statistics: Mean 15.144; Variance 52.220; scale 0.290

pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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W44123 W27568 W11920	W41390 W41397 W23953	W52227 W52221 W52221 W22412	W52219 W52237 W52233 W52213	W52225 W52217 W52239 W52239	Ħ
Light chain variable Anti-TNF-alpha antibo Humanised MAb SK48-E2	Anti-CEA antibody 119 Anti-CEA antibody 806 Chimeric humanised Mu	ຸຼມ≨ດ່	Antibody LD1-110-VL c Antibody LD2-20-VL ch Antibody LD2-14-VL ch Antibody LD1-40-VL ch	Antibody LD2-4-VL cha Antibody LD1-84-VL ch Antibody LD1-6-17-VL Antibody LD1/2-6-3-VL	Description
3.52e+00 3.52e+00 3.52e+00	3.52e+00 3.52e+00	3.52e+00 3.52e+00	3.52e+00 3.52e+00 3.52e+00 3.52e+00	3.52e+00 3.52e+00 3.52e+00 3.52e+00	Pred. No.

Query Match Best Local S Matches 1

y Match 100.0%; Local Similarity 100.0%; hes 11; Conservative

Score 63; DB 29; Pred. No. 3.52e+0(0; Mismatches

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Length 104 Indels

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Gaps

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ALIGNMENTS

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New Rhesus D antigen binding poly:peptide(s) - used to neutralise pr Rhesus D antigen in therapy, e.g. for treating idiopathic purpura thrombocytopenic purpura

PT thrombocytopenic purpura

CC This sequence is the antibody LD2-4-VL chain sequence, which is a CC This sequence is the antibody LD2-4-VL chain sequence, which is a CC polypeptide of the invention. The polypeptides are capable of forming complete binding structures with specificity for Rhesus D antigens which clinclude Rhesus D-specific CDR 1, CDR 2, and CDR 3 regions of pairs of complete comple
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  W52225 standard; Protein; 104 AA.
W52225;
W52225;
Antibody LD2-4-VL chain sequence.
Antibody; variable heavy chain; VH chain; variable light chain; VL chain; Rhesus D antigen; anti-Rhesus D immunoglobulin; HDN; therapy; idiopathic thrombocytopenic purpura; haemolytic disease of the newborn.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        31-DEC-1997.
20-JUN-1997; E03253.
24-JUN-1996; EP-810421.
24-JUN-1996; EP-810421.
(ROTK-) ROTKREUZSTIFTUNG ZENT LAB BLUTSPENDE.
(ROTK-) ROTKREUZSTIFTUNG ZENT LAB MAINTENDE.
MINISTRUTZ H, Imboden M, Miescher S, Morell A, Stadler B,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens.
W09749809-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     N-PSDB; V19749
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RESOLT
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Stalaim 1: Fig 58; 68pp; English.

CC This sequence is the antibody LD1-117-VL chain sequence, which is a

CC polypeptide of the invention. The polypeptides are capable of forming

CC antigen binding structures with specificity for Rhesus D antigens which

CC include Rhesus D-specific CDR 1, CDR 2, and CDR 3 regions of pairs of

CC variable heavy (VH) and variable light (VL) chain sequences. The

CC variable heavy (VH) and variable light (VL) chain sequences. The used for

CC e.g. idiopathic thrombocytopenic purpura. They can also be used for the

protection of Rhesus negative women before or immediately after the birth

CC (HDN) in subsequent pregnancies. In addition, anti-Rhesus D

CC (HDN) in subsequent pregnancies. In addition, anti-Rhesus D

CC (Rhesus D antigen. The products can also be used as diagnostic reagents.
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                                                                                                                                                                                                                                                                            misc_difference
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Chimeric Homo sapiens;
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20-JUN-1997;
24-JUN-1996;
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Rhesus D antigen in therapy,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                N-PSDB; V19745
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ROTKREUZSTIFTUNG ZENT LAB BLUTSPENDE
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                                                                                                                                                                                            21.6 VL, in
CDR2 loop"
                                                                                                                                                                                                                                                                            /note-
45
                                                                                    /note= "REI Tyr-49
21.6 VL, located at
50...56
                     /note- "21.6 complementarity determining region 57.88
                                                                                                                                                                                                                 /note= "REI Lys-45
21.6 VL, important
                                                                                                                                                                                                                                                                                                                                                   /label= CDR1
/note= "21.6 complementarity determining region
35..49
/label-
                                                                       /label- CDR2
                                                                                                                                                                                                                                                                                                 /label= FR2
/note= "REI
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 63; DB 29; Lei
Pred. No. 3.52e+00;
Prematches 0;
                                                                                                                                                                                                                                                                                           framework region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             injury; therapy.
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e.g. for treating
                                                                                                                                                                                                                    is
                                                                                                            is substd. by His of the binding site"
                                                                                                                                                                                                                 substd. by supporting
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RESULT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              This polypeptide, designated La, comprises the light chain variable cregion (VL) of a humanised alpha-4 integrin antibody 21.5. It is composed of complementarity determining regions (CDRs) from the VL cregion (see W22409) of mouse alpha-4 integrin monoclonal antibody 21.6 and a modified human REI framework. It can be expressed in C mammalian host cells following PCR amplification and mutagenesis of appropriate fragments of mouse and human DNA sequences. The CC humanised 21.6 VL and a humanised 21.6 th H (see W22413) can be used to produce a claimed humanised 21.6 antibody that is useful in the CC manufacture of a medicament for treating asthma, atherosclerosis, CC AIDS, dementia, diabetes, inflammatory bowel disease, rheumatoid CC arthritis, transplant rejection, graft versus host disease, tumour CC metastasis, nephritis, atopic dermatitis, psoriasis, myocardial CC ischaemia, and acute leukocyte mediated lung injury. The antibody CC may also be used in the affinity purification of alpha-4 integrin for for use as a varcine or an immunorem. It is also useful for
                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local S
Matches 1
                                   W41390 standard; Protein; 107 AA.
W41390;
W41390;
02-JUN-1998 (first entry)
Anti-CEA antibody light chain variable region VK4.
Anti-CEA antibody; carcinoembryonic antigen; 806.077 Ab; cancer therapy;
cancer diagnosis; complementarity determining region; light chain.
cancer diagnosis;
Synthetic.
W09742329-Al.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    for use as a vaccine or an immunogen. It is also useful for generating idiotypic antibodies. The humanised antibody has a half-life in the human circulation essentially equivalent to the of naturally occurring human antibodies.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Bendig MM, Jones ST, Leger OJ, Saluanna v, WPI; 97-297879/27.
Uses of humanised alpha-4 integrin antibody -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                29-MAY:197;
21-NOV-1996; U18807.
21-NOV-1995; US-561521.
(ATHE-) ATHENA NEUROSCIENCES INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   asthma, atherosclerosis, AIDS, de
Claim 25; Fig 6; 107pp; English.
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les 11; Conservation
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binding"
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58
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/label- FR4
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of human kappa light chain
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of human kappa light chain J region"
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/note= "21.6
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21.6 VL, involved i
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                                                                                                                                                                                                                                                                                                                                                                                         Score 63; DB 24;
Pred. No. 3.52e+00;
0; Mismatches C
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(MT)

Release 3.1A John F. Collins, Biocomputing Research Unit. Copyright (c) 1993-1998 University of Edinburgh, U.K. Distribution rights by Oxford Molecular Ltd

MPsrch_pp protein - protein database search, using Smith-Waterman algorithm

ular output not generated. on: Tue Mar 23 15:20:39 1999; MasPar time 1.37 Seconds 34.477 Million cell updates/sec

Description: Perfect Score: Sequence: Scoring table: Title: PAM 150 Gap 11 >US-08-766-350A-4 (31-35) from US08766350A.pep (2 of 4) 31 1 VRSGA 5

Post-processing: Minimum Match 0% Listing first 45 summaries

100342 seqs, 9469514 residues

Searched:

Database:

Statistics: a-issued 1:5A_COMB 2:5B_COMB 3:PCT9_COMB 4:backfiles1 Mean 11.797; Variance 23.980; scale 0.492

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

οË	Score	Query	Length DB	ID	Description	Pred. No.
, L	31	100.0	124 2	US-08-471-	Sequence 6, Applicatio	1.86e+02
N	31	100.0	124 1	US-0	4, Appl	'n
ω	31	٠	124 2	US-08-471-	4, App	1.86e+02
4	31			PCT-US94-0	ζ,	1.86e+02
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on.	31		124 3	PCT-US94-0	4	1.86e+02
7	31			US-08-542-	Sequence 5, Applicatio	1.86e+02
œ	31	100.0		US-08-314-	19,	1.86e+02
9	31	100.0	386 2	US-08-663-	Sequence 6, Applicatio	1.86e+02
10	31			US-08-482-	26,	1.86e+02
11	31	100.0	484 1	. US-08-127-	•	1.86e+02
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13	31	100.0	659 2	0S-0	ω	1.86e+02
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15	29	93.5			7,	3.70e+02
16	29	93.5		55		3.70e+02
17	29	93.5		US-08-278-	Sequence 14, Applicati	3.70e+02
18	29	93.5		US-08-483-	14,	3.70e+02
19	29	93.5		US-08-472-	Sequence 14, Applicati	3.70e+02
. 20	29	93.5		US-08-487-	Sequence 14, Applicati	3.70e+02
21	29	93.5		55	5	3.70e+02
22	29	93.5		2 US-08-926-	Sequence 2, Applicatio	3.70e+02
23	29	93.5			Sequence 27, Applicati	3.70e+02

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28	28	28	28	28	28	28	28	28	28	28	29	29	29	29	29	29	29	29	29	29
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Sequence 2	Sequence 7	Sequence 2	Sequence 3		Sequence 1	Sequence 5	Sequence 3	Sequence 3	Patent No.	Patent No.	Sequence 6,	Sequence 6,	Sequence 6	Sequence 6	Sequence 6	Sequence 2,	Sequence 6,	Sequence 2		Sequence 4,
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5.19e+02		5.19e+02		5.19e+02	٠	5.19e+02	٠	5.19e+02	5.19e+02	5.19e+02	3.70e+02	3.70e+02	3.70e+02	3.70e+02	3.70e+02	3.70e+02	3.70e+02	3.70e+02	3.70e+02	3.70e+02

ALIGNMENTS

8888888	8888888	88888888	‡ 88888888888888888	RESULT ID U XX AC X DT DT XX SEE S
ATTORNEY/AGENT INFORMATION: NAME: ULMER, DUANE C REGISTRATION NUMBER: 34,941 REFERENCE/DOCKET NUMBER: C-38,777 TELECOMMUNICATION INFORMATION: TELEPHONE: (517) 636-8104 INFORMATION FOR SEQ ID NO: 6: SEQUENCE CHARACTERISTICS:	APPLICATION NUMBER: US/08/471,426 FILING DATE: 06-JUN-1995 CLASSIFICATION: 536 PRIOR APPLICATION DATA: APPLICATION NUMBER: 08/017,570 FILING DATE: 16-FEB-1993	STATE: MI COUNTRY: US ZIP: 48041-1967 COMPUTER READABLE FORM: MEDIUM TYPE: Floppy disk COMPUTER: IBM FC compatible COPERATING SYSTEM: PC-DOS/MS-DOS SOTTWARE: Patentin Release #1.0, Version #1.25		LT 1 US-08-471-426-6 STANDARD; PRT; 124 AA. XXXXXXX Sequence 6, Application US/08471426

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Best Local Similarity 100.0%;
Matches 5; Conservative
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Best Local Similarity 100.0%;
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: US/08/017,570
FILING DATE: 19930216
CLASSIFICATION: 424
ATTORNEY,AGENT INFORMATION:
NAME: ULMER, DUANE C
REGISTRATION NUMBER: 34,941
REFERENCE/DOCKET NUMBER: C-38,777
TELECOMMUNICATION: TELEPHONE: (517) 636-8104
INFORMATION FOR SEC ID NO: 4:
                                                                                                                                                                                          MOLECULE TYPE: protein SEQUENCE 124 AA; 13786 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-08-017-570-4
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                                           12 VRSGA 16
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31 VRSGA 35
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TYPE: amino acia
TOPOLOGY: linear
MOLECULE TYPE: protein
MOLECULE TYPE: protei
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31 VRSGA 35
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COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                      SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:
ADDRESSEE: Duane C. Ulmer
STREET: P.O. Box 1967
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: SCHLOM, JEFFREY
TITLE OF INVENTION: A NOVEL FAMILY OF ANTI-CARCINOEMBRYONIC
TITLE OF INVENTION: ANTIGEN CHIMERIC ANTIBODIES
                                                                                                                                                                                                                                        LENGTH: 124 amino acids
TYPE: AMINO ACID
TOPOLOGY: linear
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MEZES, PETER S
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                                                                                Score 31; DB 1; Length 124;
Pred. No. 1.86e+02;
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31 VRSGA 35
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                                                                                                                                            Local Similarity 100.0%;
nes 5; Conservativo
                                                                                                                                                                                                                      TELEPHONE: (517) 636-8104
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 124 amino acids
                                                                                                                                                                                                                                                                                                                                                                ZIP: 48641-1967
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, 1
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 4, Application US/08471426 Patent No. 5808033
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                                                                                                                                                                                    MOLECULE TYPE: protein JENCE 124 AA; 13786 MW; 91250 CN;
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NAME: ULMER, DUANE C
REGISTRATION NUMBER: 34,941
REFERENCE/DOCKET NUMBER: C-38,777
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                 PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:
ADDRESSEE: Duane C. Ulmer
STREET: P.O. Box 1967
                                                                                                                                                                                                 TYPE: amino acids
TOPOLOGY: line-
LECHT -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: 08/0 FILING DATE: 16-FEB-1993
                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: US/08/471,426 FILING DATE: 06-JUN-1995
                                                                                                                                                                                                                                                                                                                                             CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                      COUNTRY:
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RIXON, MARK W
MEZES, PETER S
KAPLAN, DONALD A
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A NOVEL FAMILY OF ANTI-CARCINOEMBRYONIC ANTIGEN CHIMERIC ANTIBODIES
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Pred. No. 1.86e+02;
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Sequence 6, Application PC/TUS9401709

Sequence 6, Application PC/TUS9401709